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Sequence Listing was accepted.
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Reviewer: Durreshwar Anjum
Timestamp: [year=2009; month=10; day=7; hr=14; min=3; sec=18; ms=180; ]
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**Validated By CRFValidator v 1.0.3**

Application No: 10558937 Version No: 2.0

**Input Set:**

**Output Set:**

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**Finished:** 2009-09-23 18:00:25.477
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 86 ms
**Total Warnings:** 14
**Total Errors:** 0
**No. of SeqIDs Defined:** 19
**Actual SeqID Count:** 19

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<110> Nunn, Miles Andrew

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<141> 2007-01-29

<150> PCT/GB2004/002341
<151> 2004-06-02

<150> GB0327386.9
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<150> GB0312619.0
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gaggcatatg tcctggtgag gtccacggat cccaaagcga gggactgctt gaaaggagaa 180
ccagccggag aaaagcagga caacacgttg ccggtgatga tgacgtttaa gaatggcaca 240
gactgggctt caaccgattg gacgtttact ttggacggcg caaaggtaac ggcaaccctt 300
ggtaacctaa cccaaaatag ggaagtggtc tacgactcgc aaagtcatca ctgccacgtt 360
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<210> 2
<211> 168
<212> PRT
<213> Ornithodoros moubata

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Met Leu Val Leu Val Thr Leu Ile Phe Ser Phe Ser Ala Asn Ile Ala
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Tyr Ala Asp Ser Glu Ser Asp Cys Thr Gly Ser Glu Pro Val Asp Ala
            20                  25                  30
Phe Gln Ala Phe Ser Glu Gly Lys Glu Ala Tyr Val Leu Val Arg Ser
        35                  40                  45
Thr Asp Pro Lys Ala Arg Asp Cys Leu Lys Gly Glu Pro Ala Gly Glu
    50                  55                  60

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Lys Gln Asp Asn Thr Leu Pro Val Met Met Thr Phe Lys Asn Gly Thr
65                  70                  75                  80
Asp Trp Ala Ser Thr Asp Trp Thr Phe Thr Leu Asp Gly Ala Lys Val
                85                  90                  95
Thr Ala Thr Leu Gly Asn Leu Thr Gln Asn Arg Glu Val Val Tyr Asp
            100                 105                 110
Ser Gln Ser His His Cys His Val Asp Lys Val Glu Lys Glu Val Pro
        115                 120                 125
Asp Tyr Glu Met Trp Met Leu Asp Ala Gly Gly Leu Glu Val Glu Val
    130                 135                 140
Glu Cys Cys Arg Gln Lys Leu Glu Glu Leu Ala Ser Gly Arg Asn Gln
145                 150                 155                 160
Met Tyr Pro His Leu Lys Asp Cys
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<210> 3
<211> 163
<212> PRT
<213> Ornithodoros savignyi

<400> 3

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 1               5                  10                  15
Ala Leu Ala Asp Cys Pro Thr Gly Lys Pro Thr Glu Ala Tyr Val Ala
            20                  25                  30
Phe Asn Glu Gly Lys Gly Ala Tyr Ile Leu Val Arg Ser Thr Asn Leu
        35                  40                  45
Asn Ala Arg Asp Cys Leu Lys Gly Glu Ala Thr Gly Lys Lys Glu Gly
    50                  55                  60
Asn Thr Leu Pro Val Met Met Ala Phe Lys Asp Glu Gly Lys Trp Val
65                  70                  75                  80
Ser Leu Pro Trp Thr Phe Thr Leu Asp Gly Pro Lys Val Thr Ala Thr
                85                  90                  95
His Gly Gln Arg Thr Leu Lys Gly Glu Val Val Tyr Asp Val Pro Ser
            100                 105                 110
His His Cys His Ile Glu Lys Leu Glu Ser Gly Ala Tyr Asp Met Trp
        115                 120                 125
Met Leu Glu Ala Gly Gly Leu Glu Val Asp Ile Glu Cys Cys Asn Lys
    130                 135                 140
Arg Tyr Asp Glu Leu Thr Ser Gly Gln Val Val Ile Arg Pro Gln Asp
145                 150                 155                 160
Lys Asp Cys
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<210> 4
<211> 163
<212> PRT
<213> Ornithodorus savignyi

<400> 4

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Ala Leu Ala Asp Cys Pro Thr Gly Lys Pro Thr Asp Ala Tyr Val Ala
            20                  25                  30
Phe Asn Glu Gly Gln Gly Ala Tyr Ile Leu Val Lys Ser Thr Asp Leu
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        35                  40                  45
Asp Ala Arg Asp Cys Leu Lys Gly Ser Ala Thr Gly Lys Lys Glu Gly
    50                  55                  60
Asn Lys Val Pro Val Met Met Ala Phe Lys Asn Glu Gly Gln Trp Val
65                  70                  75                  80
Ser Leu Pro Trp Thr Phe Thr Leu Asp Gly Pro Lys Val Thr Ala Thr
                85                  90                  95
Asp Gly Gln Arg Thr Leu Lys Arg Glu Val Val Tyr Asp Val Ala Ser
            100                 105                 110
His His Cys His Val Glu Lys Leu Ala Ser Gly Ala Tyr Glu Met Trp
        115                 120                 125
Met Leu Glu Ala Gly Gly Leu Glu Val Asp Ile Glu Cys Cys Asn Lys
    130                 135                 140
Lys Tyr Asp Glu Leu Thr Ser Gly Gln Val Val Ile Arg Pro Gln Asp
145                 150                 155                 160
Lys Asp Cys
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<210> 5
<211> 171
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<213> Ornithodorus moubata

<400> 5

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 1               5                  10                  15
Ala Tyr Ala Gln Ser Gly Cys Ser Val Ser Asp Pro Leu Asp Ala Leu
            20                  25                  30
Lys Ala Phe Lys Asp Gly Ala Gly Thr Phe Leu Leu Gln Lys Ser Thr
        35                  40                  45
Asp Pro Gln Ala Arg Asp Cys Leu Lys Gly Thr Pro Asn Gly Asn Arg
    50                  55                  60
Asp Gly Asn Thr Leu Pro Val Thr Met Thr Tyr Lys Asp Asp Ser Lys
65                  70                  75                  80
Trp Val Ser Leu Asn Trp Met Phe Thr Leu Glu Gly Ala Asn Ile Val
                85                  90                  95
Ala Thr Leu Glu Gly Lys Arg Lys Gln Arg Gly Glu Leu Val Tyr Asp
            100                 105                 110
Val Gln Ser His Asp Cys His Ile Thr Lys Leu Ser Ser Gly Val Tyr
        115                 120                 125
Gln Gln Trp Gln Ser Asn Gly Ser Ala Asp Asp Lys Asp Ile Lys Cys
    130                 135                 140
Cys Asp Glu Lys Phe Lys Glu Leu Thr Ser Gly Ile Asp Tyr Thr Lys
145                 150                 155                 160
Pro Gln Glu Lys Gly Cys Glu Thr Ser Ala Lys
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<210> 6
<211> 168
<212> PRT
<213> Ornithodoros moubata

<400> 6

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Met Leu Val Leu Val Thr Leu Ile Phe Ser Phe Ser Ala Asn Ile Ala
 1               5                  10                  15
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Tyr Ala Asp Ser Glu Ser Asp Cys Ser Gly Ser Glu Pro Val Asp Ala
            20                  25                  30
Phe Gln Ala Phe Ser Glu Gly Lys Glu Ala Tyr Val Leu Val Arg Ser
        35                  40                  45
Thr Asp Pro Lys Ala Arg Asp Cys Leu Lys Gly Glu Pro Ala Gly Glu
    50                  55                  60
Lys Gln Asp Asn Thr Leu Pro Val Met Met Thr Phe Lys Asn Gly Thr
65                  70                  75                  80
Asp Trp Ala Ser Thr Asp Trp Thr Phe Thr Leu Asp Gly Ala Lys Val
                85                  90                  95
Thr Ala Thr Leu Gly Asn Leu Thr Gln Asn Arg Glu Val Val Tyr Asp
            100                 105                 110
Ser Gln Ser His His Cys His Val Asp Lys Val Glu Lys Glu Val Pro
        115                 120                 125
Asp Tyr Glu Met Trp Met Leu Asp Ala Gly Gly Leu Glu Val Glu Val
    130                 135                 140
Glu Cys Cys Arg Gln Lys Leu Glu Glu Leu Ala Ser Gly Arg Asn Gln
145                 150                 155                 160
Met Tyr Pro His Leu Lys Asp Cys
                165
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<210> 7
<211> 163
<212> PRT
<213> Ornithodoros savignyi

<400> 7

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 1               5                  10                  15
Ala Leu Ala Asp Cys Pro Thr Gly Lys Pro Thr Glu Ala Tyr Val Ala
            20                  25                  30
Phe Asn Glu Gly Lys Gly Ala Tyr Ile Leu Val Arg Ser Thr Asn Leu
        35                  40                  45
Asn Ala Arg Asp Cys Leu Lys Gly Glu Ala Thr Gly Lys Lys Glu Gly
    50                  55                  60
Asn Thr Leu Pro Val Met Met Ala Phe Lys Asp Glu Gly Lys Trp Val
65                  70                  75                  80
Ser Leu Pro Trp Thr Phe Thr Leu Asp Gly Pro Lys Val Thr Ala Thr
                85                  90                  95
His Gly Gln Arg Thr Leu Lys Gly Glu Val Val Tyr Asp Val Pro Ser
            100                 105                 110
His His Cys His Ile Glu Lys Leu Glu Ser Gly Ala Tyr Asp Met Trp
        115                 120                 125
Met Leu Glu Ala Gly Gly Leu Glu Val Asp Ile Glu Cys Cys Asn Lys
    130                 135                 140
Arg Tyr Asp Glu Leu Thr Ser Gly Gln Val Val Ile Arg Pro Gln Asp
145                 150                 155                 160
Lys Asp Cys
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<210> 8
<211> 163
<212> PRT
<213> Ornithodoros savignyi

<400> 8
Met Met Leu Val Leu Ala Thr Val Ile Leu Ser Phe Ser Ala Ser Thr
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            20                  25                  30
Phe Asn Glu Gly Gln Gly Ala Tyr Ile Leu Val Lys Ser Thr Asp Leu
        35                  40                  45
Asp Ala Arg Asp Cys Leu Lys Gly Ser Ala Thr Gly Lys Lys Glu Gly
    50                  55                  60
Asn Lys Val Pro Val Met Met Ala Phe Lys Asn Glu Gly Gln Trp Val
65                  70                  75                  80
Ser Leu Pro Trp Thr Phe Thr Leu Asp Gly Pro Lys Val Thr Ala Thr
                85                  90                  95
Asp Gly Gln Arg Thr Leu Lys Arg Glu Val Val Tyr Asp Val Ala Ser
            100                 105                 110
His His Cys His Val Glu Lys Leu Ala Ser Gly Ala Tyr Glu Met Trp
        115                 120                 125
Met Leu Glu Ala Gly Gly Leu Glu Val Asp Ile Glu Cys Cys Asn Lys
    130                 135                 140
Lys Tyr Asp Glu Leu Thr Ser Gly Gln Val Val Ile Arg Pro Gln Asp
145                 150                 155                 160
Lys Asp Cys

<210> 9
<211> 171
<212> PRT
<213> Ornithodoros moubata

<400> 9
Met Met Leu Val Leu Thr Thr Leu Ile Phe Ser Phe Ser Ala Ser Ile
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            20                  25                  30
Lys Ala Phe Lys Asp Gly Ala Gly Thr Phe Leu Leu Gln Lys Ser Thr
        35                  40                  45
Asp Pro Gln Ala Arg Asp Cys Leu Lys Gly Thr Pro Asn Gly Asn Arg
    50                  55                  60
Asp Gly Asn Thr Leu Pro Val Thr Met Thr Tyr Lys Asp Asp Ser Lys
65                  70                  75                  80
Trp Val Ser Leu Asn Trp Met Phe Thr Leu Glu Gly Ala Asn Ile Val
                85                  90                  95
Ala Thr Leu Glu Gly Lys Arg Lys Gln Arg Gly Glu Leu Val Tyr Asp
            100                 105                 110
Val Gln Ser His Asp Cys His Ile Thr Lys Leu Ser Ser Gly Val Tyr
        115                 120                 125
Gln Gln Trp Gln Ser Asn Gly Ser Ala Asp Asp Lys Asp Ile Lys Cys
    130                 135                 140
Cys Asp Glu Lys Phe Lys Glu Leu Thr Ser Gly Ile Asp Tyr Thr Lys
145                 150                 155                 160
Pro Gln Glu Lys Gly Cys Glu Thr Ser Ala Lys
                165                 170

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<210> 11
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide

<400> 11
aattaaccct cactaaag 18

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<223> s is c or g

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<220>
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<400> 13
gggaggcttt ctgtatcc 18

<210> 14
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide

<400> 14
cgtccaatcg gttgaag 17

<210> 15
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide

<400> 15
gactcgcaaa gtcatcac 18

<210> 16
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide

<400> 16
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<210> 17
<211> 55
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Oligonucleotide

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<210> 18
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<220>
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<400> 18
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<210> 19
<211> 17
<212> PRT
<213> Ornithodoros moubata

<220>
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<220>
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